

July 26, 2005

Page 1 of 1



Please Direct All Correspondence to Customer Number 20995

Ben Sg.  
H6

AMENDMENT / RESPONSE TRANSMITTAL

Applicant : Oda, et al.  
App. No : 10/501,691 ✓  
Filed : July 16, 2004  
For : METHOD FOR IMMOBILIZING  
BIOMOLECULE ON CARRIER  
Examiner : Unknown  
Art Unit : Unknown

CERTIFICATE OF MAILING

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

July 26, 2005

(Date)

*Che S. Chereskin*

Che Swyden Chereskin, Ph.D., Reg. No. 41,466

Mail Stop Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing in the above-identified application are the following enclosures:

- (X) Response to Notice to Comply in 3 pages.
- (X) Sequence Listing in 3 pages and two (2) CRF diskettes containing same.
- (X) Copy of Notification to Comply
- (X) Return prepaid postcard.
- (X) Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

*Che S. Chereskin*

Che Swyden Chereskin, Ph.D.

Registration No. 41,466

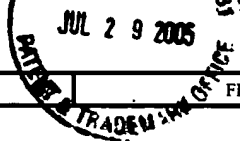
Agent of Record

Customer No. 20,995

(949) 760-0404



TOYA115.613 APC H3  
DEA/K O/P/E  
UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

U.S. APPLICATION NUMBER NO. 10/501,691	FIRST NAMED APPLICANT Ryuichi Oda	ATTY. DOCKET NO. TOYA115.013APC
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INTERNATIONAL APPLICATION NO.
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PCT/JP03/01006

I.A. FILING DATE 01/31/2003	PRIORITY DATE 02/01/2002
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20995  
KNOBBE MARTENS OLSON & BEAR LLP  
2040 MAIN STREET  
FOURTEENTH FLOOR  
IRVINE, CA 92614

CONFIRMATION NO. 7122

371 FORMALITIES LETTER



\*OC000000016315954\*

Date Mailed: 06/21/2005

## NOTIFICATION TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patent Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patent Software Program Help @ [ebc@uspto.gov](mailto:ebc@uspto.gov)

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

SHELBY J VIGIL

Telephone: (703) 308-9140 EXT 224

### PART 1 - ATTORNEY/APPLICANT COPY

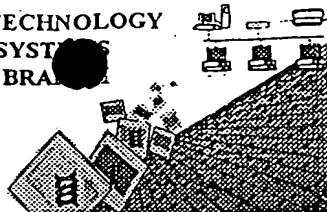
U.S. APPLICATION NUMBER NO. 10/501,691	INTERNATIONAL APPLICATION NO. PCT/JP03/01006	ATTY. DOCKET NO. TOYA115.013APC
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FORM PCT/DO/EO/922 (371 Formalities Notice)

**RAW SEQUENCE LISTING**  
**ERROR REPORT**



BIOTECHNOLOGY  
SYSTEMS  
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/501,691

Source:

PCT

Date Processed by STIC:

7/29/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

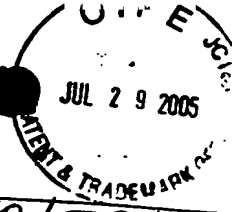
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

# Raw Sequence Listing Error Summary

JUL 29 2005



SERIAL NUMBER: 10/501,691

## ERROR DETECTED

## SUGGESTED CORRECTION

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics  
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino Numbering The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s)          contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)         . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences (OLD RULES) Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO: X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences
- 8 Skipped Sequences (NEW RULES) Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
<210> sequence id number  
<400> sequence id number  
000
- 9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213> Response \* Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence <sup>OR</sup>
- 11 Use of <220> Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 07/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC - Biotechnology Systems Branch - 09/09/2003

Best Available Copy



PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/501,691

DATE: 07/29/2004  
TIME: 15:49:33

Input Set : A:\seqlst\_US.TXT  
Output Set: N:\CRF4\07292004\J501691.raw

4 <110> APPLICANT: Oda, Ryuichi  
5 Kimura, Naoki  
7 <120> TITLE OF INVENTION: Method of fixing biomolecule to carrier  
9 <130> FILE REFERENCE: TOYA115.013APC  
W--> 10 <140> CURRENT APPLICATION NUMBER:  
C--> 11 <141> CURRENT FILING DATE: 2004-07-16  
13 <150> PRIOR APPLICATION NUMBER: PCT/JP03/01006  
14 <151> PRIOR FILING DATE: 2003-01-31  
16 <150> PRIOR APPLICATION NUMBER: JP 2002-25622  
17 <151> PRIOR FILING DATE: 2002-02-01  
19 <150> PRIOR APPLICATION NUMBER: JP 2002-242456  
20 <151> PRIOR FILING DATE: 2002-08-22  
22 <160> NUMBER OF SEQ ID NOS: 8  
24 <170> SOFTWARE: PatentIn version 3.0

Does Not Comply  
Corrected Diskette Needed

(pg. 1-2)

# ERRORED SEQUENCES

50 <210> SEQ ID NO: 3  
51 <211> LENGTH: 21  
52 <212> TYPE: DNA  
C--> 53 <213> ORGANISM: Artificial/Unknown  
55 <220> FEATURE:  
56 <223> OTHER INFORMATION: Description of Artificial Sequence: probe DNA  
58 <400> SEQUENCE: 3  
59 tcgcccgcgtg tttttgatga ggcggatttt cgggcagttg ccgtttatct caccggcgct 60  
60 gaatacacgg gcgaagagct ggacagcgat acctggcagg cggagctgca tatcgaagtt 120  
61 ttccctgcctg ctcaggtgcc ggattcagag ctggatgcgt ggatggagtc cgggatttat 180  
62 cgggtgatga gcgatatccc ggcactgtca gatttgatca ccagtatggt ggccagcgcc 240  
E--> 63 tatgactacc ggcgcgacga tg

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

Please refer to item #10 on the attached  
error summary sheet.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/501,691

DATE: 07/29/2004

TIME: 15:49:34

Input Set : A:\seq1st\_US.TXT

Output Set: N:\CRF4\07292004\J501691.raw

L:10 M:283 W: Missing Blank Line separator, <140> field identifier  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:29 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1  
L:41 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2  
L:53 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3  
L:63 M:252 E: No. of Seq. differs, <211> LENGTH:Input:21 Found:262 SEQ:3 ✓  
L:68 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4  
L:80 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:92 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:104 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7  
L:116 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8